

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00001UT Revision No: 2

This is to certify:

That Intolcast Pvt. Ltd. Rajkot 360024, Gujarat, India

is an approved manufacturer of **Steel Castings**

in accordance with DNV rules for classification – Ships DNV class programme – DNV-CP-0246 Steel castings

and the following particulars:

Application area	Castings for hull structures and equipment Stainless steel castings
Steel type(s)	Carbon and carbon-manganese,
	Austenitic stainless,
	See page 2
Casting method	Investment casting
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2023-12-21

This Certificate is valid until **2026-12-31**. DNV local unit: **India**

Approval Engineer: Christian Wildhagen



for DNV This document has been digitally signed and will therefore not have handwritten signature Stefan Röhr

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





Particulars of the approval

Castings for hull structure and equipment

Steel type	Grade	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	NV C400UW, NV C440UW, NV C480UW	IC	50	85	N, QT

Stainless steel castings

Steel type	Grade	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	GX 2 CrNi 18 10 (304L), GX 5 CrNi 19 9 (304), GX 6 CrNiNb 19 10 (347), GX 2 CrNiMo 19 11 2 (316L), GX 5 CrNiMo 19 11 2 (316), GX 5 CrNiMo 19 11 3 (317)	IC	50	85	SHT

Remarks:

1)

IC: Investment Casting SHT: Solution Heat Treated (Solution Annealing) 2) N: Normalised

QT: Quenched and tempered

Special conditions:

Including austenitic stainless steel for low temperature service